

Appln No.: 09/639,207

Applicant(s): Parsa Kazemi-Esfarjani et al.

AN ANIMAL MODEL OF POLYGLUTAMINE TOXICITY,

METHODS OF USE, AND MODULATORS OF

POLYGLUTAMINE TOXICITY

20CAGHA

127CAGHA

FIG. 1A

20QHA

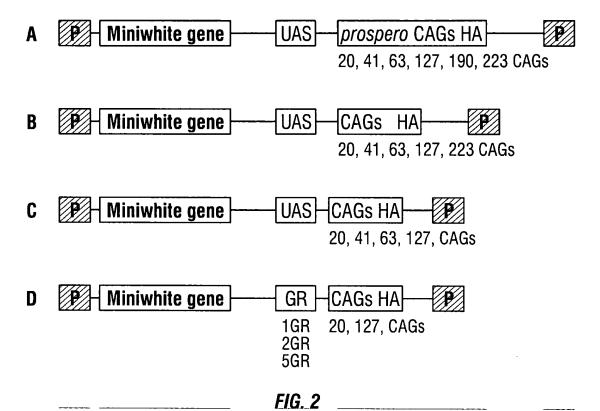
MGGPPSTPQ₂₀TSRTYPYDVPDYA

127QHA ${\tt MGGPPSTPQ}_{127}{\tt TSRTYPYDVPDYA}$

FIG. 1B



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Generation of P-element insertion and screening for modifiers

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M P[Δ2-3]/P[Δ2-3] X F EP55/EP55

M EP55/Y;;P[Δ2-3]/+ X F w/w

M w/Y;pEP/+;+ or w/Y;+;pEP/+ X F w;GMR/CyO;127Q/127Q

Progeny screened for eye phenotype

Isolation of the new P-element insertion (pEP=suppressor or enhancer)

M (GMR;127Q)/pEP X F (CyO;TM3)/Xa

M GMR/CyO;pEP/TM3 X F w1118

M GMR;TM3 or CyO;pEP X F w;GMR/CyO;127Q/127Q to test

X F (CyO;TM3)/Xa to establish line

M +/CyO;pEP/TM3 X F +/CyO;pEP/TM3

pEP/TM3 or pEP/pEP established lines
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FIG. 3